

This Raw Listing contains the General
Information Section and up to the first 5 pages.

0380
1800

ENTERED 4/23

1 SEQUENCE LISTING
2

3 (1) General Information:

4 (i) APPLICANT: Goeddel, David V.
5 Rothe, Mike

6 (ii) TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors

7 (iii) NUMBER OF SEQUENCES: 66

8 (iv) CORRESPONDENCE ADDRESS:

9 (A) ADDRESSEE: Genentech, Inc.
10 (B) STREET: 460 Point San Bruno Blvd
11 (C) CITY: South San Francisco
12 (D) STATE: California
13 (E) COUNTRY: USA
14 (F) ZIP: 94080

15 (v) COMPUTER READABLE FORM:

16 (A) MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
17 (B) COMPUTER: IBM PC compatible
18 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
19 (D) SOFTWARE: patin (Genentech)

20 (vi) CURRENT APPLICATION DATA:

21 (A) APPLICATION NUMBER:
22 (B) FILING DATE:
23 (C) CLASSIFICATION:

24 (vii) PRIOR APPLICATION DATA:

25 (A) APPLICATION NUMBER: 08/250858
26 (B) FILING DATE: 27-MAY-1994

27 (vii) PRIOR APPLICATION DATA:

28 (A) APPLICATION NUMBER: 08/331394
29 (B) FILING DATE: 28-OCT-1994

30 (viii) ATTORNEY/AGENT INFORMATION:

31 (A) NAME: Dreger, Ginger R.
32 (B) REGISTRATION NUMBER: 33,055
33 (C) REFERENCE/DOCKET NUMBER: 897P2

34 (ix) TELECOMMUNICATION INFORMATION:

35 (A) TELEPHONE: 415/225-3216
36 (B) TELEFAX: 415/952-9881

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47 (C) TELEX: 910/371-7168

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 2088 bases

53 (B) TYPE: nucleic acid

54 (C) STRANDEDNESS: single

55 (D) TOPOLOGY: linear

56

57 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

58

59

60 CCCAGCCCGG TTCTCTGCCA CAAGGACGCT ACCGCCAAT GCGAGCAGAA 50

61

62

63 GGCGGCGCAC AGATACAGAA AGTGAGGCTC AGACATATTG AAGACCGTGT 100

64

65

66 GACATAGGGT AGCCAAATGA CAGTGTGAGA AAGTGACATT TACTCAAGGC 150

67

68

69 CACCCAGATA TCCTGGAGGA CCCAGAACCC TGGAGATTCC CATCAGAAAG 200

70

71

72 ACCTTCTGGC CACCTGAAAC CCCAAGATGG CCTCCAGCTC AGCCCCTGAT 250

73

74

75 GAAAACGAGT TTCAATTGAGG TTGCCCCCCT GCTCCCTGCC AGGACCCATC 300

76

77

78 GGAGCCCAGA GTTCTCTGCT GCACAGCCTG TCTCTCTGAG AACCTGAGAG 350

79

80

81 ATGATGAGGA TCGGATCTGT CCTAAATGCA GAGCAGACAA CCTCCATCCT 400

82

83

84 GTGAGCCCAG GAAGCCCTCT GACTCAGGAG AAGGTTCACT CTGATGTAGC 450

85

86

87 TGAGGCTGAA ATCATGTGCC CCTTTGCAGG TGTTGGCTGT TCCTTCAAGG 500

88

89

90 GGAGCCCACA ATCCATGCAG GAGCATGAGG CTACCTCCCA GTCTCCCAC 550

91

92

93 CTGTACCTGC TGCTGGCGGT CTTAAAGGAG TGGAAATCCT CACCAGGCTC 600

94

95

96 CAACCTAGGG TCTGCACCCA TGGCACTGGA GCGGAACCTG TCAGAGCTGC 650

97

98

99 AGCTTCAGGC AGCTGTGGAA GCGACAGGGG ACCTGGAGGT AGACTGCTAC 700

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/446,915DATE: 07/11/95
TIME: 09:53:10

INPUT SET: S4679.raw

100
101
102 CGGGCACCTT GCTGTGAGAG CCAGGAAGAA CTGGCCCTGC AGCACTTGGT 750
103
104
105 GAAGGAGAAG CTGCTGGCTC AGCTGGAGGA GAAGCTGCGT GTGTTTGCAA 800
106
107
108 ACATTGTTGC TGTCCCTAAC AAGGAAGTGG AGGCTTCCCA CCTGGCACTG 850
109
110
111 GCCGCCTCCA TCCACCAGAG CCAGTTGGAC CGAGAGCACC TCCTGAGCTT 900
112
113
114 GGAGCAGAGG GTGGTGGAAAT TACAGCAAAC CCTGGCTCAA AAAGACCAGG 950
115
116
117 TCCTGGCAA GCTTGAGCAC AGTCTGCGAC TCATGGAGGA GGCATCCTTT 1000
118
119
120 GATGGTACTT TCCTGTGGAA GATCACCAAT GTCACCAAGC GGTGCCACGA 1050
121
122
123 GTCAGTGTGT GGCCGGACTG TCAGCCTCTT CTCTCCAGCT TTCTACACTG 1100
124
125
126 CCAAGTATGG TTACAAGTTG TGCCTGCGCT TGTACCTGAA CGGGGATGGC 1150
127
128
129 TCAGGCAAGA AGACCCACCT GTCCCTCTTC ATCGTGATCA TGAGAGGAGA 1200
130
131
132 ATACGATGCT CTCCTGCCCT GGCCCTTCAG GAACAAGGTC ACCTTTATGC 1250
133
134
135 TACTTGACCA GAACAACCGA GAGCATGCTA TTGATGCCCTT CCGGCCTGAC 1300
136
137
138 CTGAGCTCAG CCTCCTTCCA GCGGCCACAG AGTGAGACCA ACGTGGCCAG 1350
139
140
141 CGGCTGCCCG CTCTTCTTCC CCCTCAGCAA GCTGCAGTCA CCCAAGCACG 1400
142
143
144 CCTACGTCAA AGATGACACA ATGTTCCCTCA AATGCATTGT GGACACTAGT 1450
145
146
147 GCTTAGGGAT GGGGGGAGGG GGTGTCTCCT GACAGAACCA GCTTAGACTG 1500
148
149
150 GGGGACTTAG CTAGACAGCC AGGCCCTGCC TGCCCTTGGA GCCCACAGCC 1550
151
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/446,915DATE: 07/11/95
TIME: 09:53:15

INPUT SET: S4679.raw

153 CACGACAAGG AGGAGCCAAG GCTGGCATGA CTTCAGCGCC ACAGCATGCT 1600
154
155
156 GGTTATGGCT GATGTGAGGC TGGAGAAACG TGTGCGTACA GAGACAGAGT 1650
157
158
159 GGAGGAGAAG ACAGAAGTGC TCTTTTCACA CAGACTACAC GACACCAGGA 1700
160
161
162 GGCCAGCATG CCAGCAGCTT CTGAATGTTG AGACCAGCCT AGATCAGGAT 1750
163
164
165 GAAAAGAGCC AGGCCTGAGG CTTGGACATT GAGCCAAGGC TATGGGGCCT 1800
166
167
168 AAGTGGAGGG GCACTCCTAC CAGGACATTC TCTCGAGGTC AGGGCATAAC 1850
169
170
171 TGGAAAAATG CCCCCATCTC TCTGTTCAGA CTCAAAACTA GAACCACAGG 1900
172
173
174 GCAGAAGGGT CAGACATTAA TGTGAATTAA ACCTGCCCTG GACTGAGTTC 1950
175
176
177 CTATGTTAAC AGACACGCAA ACAGGTAAAC CCAGAAACTG CCCTGGGAAA 2000
178
179
180 TGCTTTCTGG CTGCATCTGG AGATCTTGA TGTTTTACC GACAAAACAA 2050
181
182
183 ATAACAAAAG CCTTGAATTG CAAAAAAA AAAAAAAA 2088
184
185
186
187 (2) INFORMATION FOR SEQ ID NO:2:
188
189 (i) SEQUENCE CHARACTERISTICS:
190 (A) LENGTH: 409 amino acids
191 (B) TYPE: amino acid
192 (D) TOPOLOGY: linear
193
194 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
195
196 Met Ala Ser Ser Ser Ala Pro Asp Glu Asn Glu Phe Gln Phe Gly
197 1 5 10 15
198 Cys Pro Pro Ala Pro Cys Gln Asp Pro Ser Glu Pro Arg Val Leu
199 20 25 30
200
201 Cys Cys Thr Ala Cys Leu Ser Glu Asn Leu Arg Asp Asp Glu Asp
202 35 40 45
203
204 Arg Ile Cys Pro Lys Cys Arg Ala Asp Asn Leu His Pro Val Ser
205

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/446,915DATE: 07/11/95
TIME: 09:53:20

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206	50	55	60
207			
208	Pro Gly Ser Pro Leu Thr Gln Glu Lys Val His Ser Asp Val Ala		
209	65	70	75
210			
211	Glu Ala Glu Ile Met Cys Pro Phe Ala Gly Val Gly Cys Ser Phe		
212	80	85	90
213			
214	Lys Gly Ser Pro Gln Ser Met Gln Glu His Glu Ala Thr Ser Gln		
215	95	100	105
216			
217	Ser Ser His Leu Tyr Leu Leu Ala Val Leu Lys Glu Trp Lys		
218	110	115	120
219			
220	Ser Ser Pro Gly Ser Asn Leu Gly Ser Ala Pro Met Ala Leu Glu		
221	125	130	135
222			
223	Arg Asn Leu Ser Glu Leu Gln Leu Gln Ala Ala Val Glu Ala Thr		
224	140	145	150
225			
226	Gly Asp Leu Glu Val Asp Cys Tyr Arg Ala Pro Cys Cys Glu Ser		
227	155	160	165
228			
229	Gln Glu Glu Leu Ala Leu Gln His Leu Val Lys Glu Lys Leu Leu		
230	170	175	180
231			
232	Ala Gln Leu Glu Glu Lys Leu Arg Val Phe Ala Asn Ile Val Ala		
233	185	190	195
234			
235	Val Leu Asn Lys Glu Val Glu Ala Ser His Leu Ala Leu Ala Ala		
236	200	205	210
237			
238	Ser Ile His Gln Ser Gln Leu Asp Arg Glu His Leu Leu Ser Leu		
239	215	220	225
240			
241	Glu Gln Arg Val Val Glu Leu Gln Gln Thr Leu Ala Gln Lys Asp		
242	230	235	240
243			
244	Gln Val Leu Gly Lys Leu Glu His Ser Leu Arg Leu Met Glu Glu		
245	245	250	255
246			
247	Ala Ser Phe Asp Gly Thr Phe Leu Trp Lys Ile Thr Asn Val Thr		
248	260	265	270
249			
250	Lys Arg Cys His Glu Ser Val Cys Gly Arg Thr Val Ser Leu Phe		
251	275	280	285
252			
253	Ser Pro Ala Phe Tyr Thr Ala Lys Tyr Gly Tyr Lys Leu Cys Leu		
254	290	295	300
255			
256	Arg Leu Tyr Leu Asn Gly Asp Gly Ser Gly Lys Lys Thr His Leu		
257	305	310	315
258			

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/446,915**

DATE: 07/11/95
TIME: 09:53:25

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Original Text